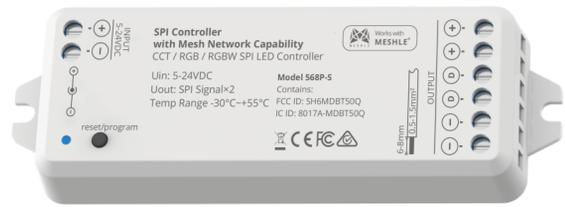


# Bluetooth SPI LED Controller

- Multi-pixel LED strip controller with SPI signal output.
- MESHLE APP cloud control, support to set colors, scenes, animations, timers ,rules ,device configuration, power up state, PWM frequency, etc.
- Offers group control capability: can be operated individually or as part of a group.
- Compatible with MESHLE: Enables wireless connection with other devices in a Bluetooth Mesh Network and control via the MESHLE APP.

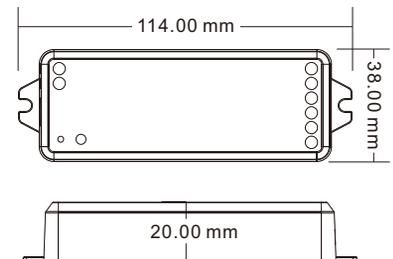
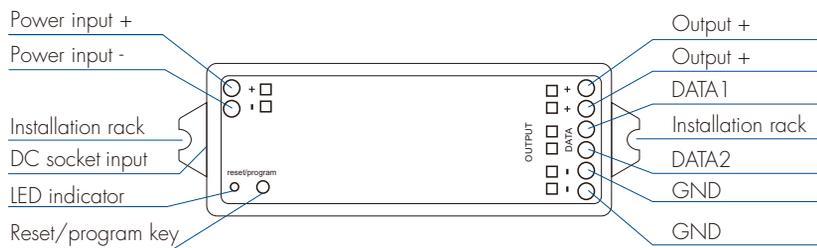


CE RoHS

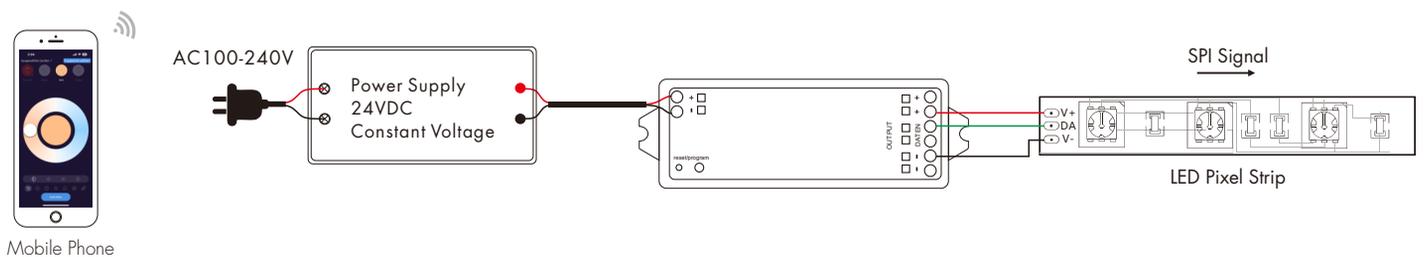
## Technical Parameters

Input and Output		Safety and EMC		Environment	
Input voltage	5-24VDC	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3	Operation temperature	Ta: -20°C ~ +40°C
Output voltage	5-24VDC		ETSI EN 301 489-17 V3.2.4	Case temperature (Max.)	Tc: +65°C
Output Current	5A	Safety standard	EN 62368-1:2020+A11:2020	IP rating	IP20
Output power	120W	Certification	CE,EMC	<b>Package</b>	
Output signal	SPI(TTL) x 2	<b>Warranty</b>		Size	L120 x W43 x H27mm
Input signal	MESHLE APP+Bluetooth Mesh	Warranty	5 years	Gross weight	0.069kg
Pixel Dots	Max 1000				

## Mechanical Structures and Installations



## Wiring Diagram



- Note:**
1. If the SPI LED strip is a single-wire control method, one controller can connect 2 LED strips.
  2. The output power of the constant voltage power supply is at least 1.2 times that of the output load (LED strip), otherwise the full power output of the load will easily cause the lights to flicker or shake automatically.

## Reset/program Key Operation

To set the light type by pressing the reset/program key, proceed as follows:

**Step 1:** Long press the reset/program key for 3 seconds, the controller restores the factory setting.

**Step 2:** After the controller enters the factory setting state, long press the reset/program key again for 3 seconds to enter the mode of changing dimming type.

**Step 3:** Short press the reset/program key to switch 5 lighting types sequentially:

- DIM dimming type, the indicator light blinks 1 time;
- CCT dimming type, the indicator light blinks 2 times;
- RGB dimming type, the indicator light blinks 3 times;
- RGBW dimming type, the indicator light blinks 4 times;
- RGB+CCT dimming type, the indicator light blinks 5 times.

**Step 4:** Count blinking time to ensure the right mode is selected and then press for 3 seconds again, to confirm the mode.

## Network Setup

### New network

If this is the first device that is being setup follow the steps below:

1. Download MESHLE APP and allow all required permissions and press "Start".
2. Power up the controller, now it should be listed in the search view of the APP.
3. Select the listed item and follow the instructions: create password for the new network and configure the controller.
4. For every further device follow the steps described in "Add to existing network".

### Existing network

If new device have to be added to existing network follow the steps below:

1. Download MESHLE APP and allow all required permissions and press "Start".
2. Select existing network and enter the network password once requested.
3. After joining the network press plus button in the bottom right corner of the APP and select "Device".
4. Power up the controller, now it should be listed in the search view of the APP.
5. Select the listed item and follow the instructions to configure the controller.

## MESHLE APP interface

Make sure your phone or iPad's Bluetooth is turned on when connecting your device and you use the latest APP.

